PATENT Attorney Docket No. 08364.0037 CUSTOMER NUMBER 22,852

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 C_{18} or C_{8} disks are used in different matrixes (PTFE, glass fibre) together bathocuproine (eg reagent diphenylcarbohydrazide, it is possible to collect specific metal species (eg photometric with Cu(I), Cr(VI), respectively). Normally, it is difficult to detect low concentrations of such species with only the photometric reagent bathocuproine, but together with pre-concentration of the metal complexed to a photometric reagent on a C_8 or a C_{18} disk, it is possible (as described by Björklund and Morrison ibid). The possibility of having the photometric reagent immobilised on the disk in advance of deployment or to have it directly equilibrated in the sample is also an advantage. Examples of photometric reagents that can be used are bathocuproine, methylthymol acid, cresol glycine orange, xylenol diphenylcarbazide and 1,5-diphenyl carbohydrazide. blue,

Please substitute lines 9-25 on page 35, and lines 1-6 on page 31 with the following:

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FINNEGAN HENDERSON FARABOW GARRETT& DUNNER LLP

1300 I Street, NW Washington, DC 20005 202.408.4000 Fax 202.408.4400 www.finnegan.com A range of membrane materials with very different chemical characteristics and physical properties is available for evaluation with regard to their suitability as diffusion-limiting membranes for selected micropollutants in the passive sampling system. A membrane material is required which allows the rapid diffusion of the micropollutant, e.g. small, required molecules, through either the matrix of the membrane and/or its small pores into the receiving phase of the device. It should also have a

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AA CCCC low affinity for the micropollutants for which the device is to be calibrated, so that pollutants do not accumulate within the membrane material rather than passing through to the chosen receiving phase. In addition to its diffusional properties, physical robustness and ability to resist bacterial attack should be taken into consideration, as they can be important characteristics of the chosen membrane material in cases where the device is to be deployed in harsh environmental conditions. Examples of suitable membranes for the collection of organic analytes include hydrophilic or hydrophobic polymer materials having a pore size in the range of from about 0.1 μ m to 2 μ m, such as those listed below in Table 1.

Please substitute lines 3-6 and lines 9-13 on page 39 with the

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following: characterised in that the receiving phase comprises an immobilised solid phase material, and the diffusion-limiting membrane comprises pores traversing the membrane and having a diameter in the range of from 0.1 to 10 μ m.

FINNEGAN HENDERSON FARABOW GARRETT& DUNNERLLP Preferably, the pores have a diameter in the range of from 0.1 to 1 μm, especially about 0.1 to 0.2 μm. Suitable membranes for polar, organic pollutants include polymers such as polysulphone, polycarbonate, cellulose dialysis membrane, PTFE and PVDF, and glass fibre.

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